




Faculty Details proforma
Sri Guru Tegh Bahadur Khalsa College
University of Delhi, Delhi-7

Department of Mathematics

Title	Mr.	First Name	Daljeet Singh	Last Name	Bajaj	Photograph
Designation	Assistant Professor					
Address	S.G.T.B. Khalsa College, University of Delhi, Delhi-110007					
Contact No						
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Web-Page						
Educational Qualifications						
Degree	Institution				Year	
Ph.D.	Department of Mathematics, University of Delhi				Pursuing	
M.Phil.	Department of Mathematics, University of Delhi				2017	
Masters	S.G.T.B. Khalsa College, University of Delhi				2013	
Graduation	S.G.T.B. Khalsa College, University of Delhi				2011	
Professional Qualification						
Career Profile						
Institution	Designation		Duration		Duties	
S.G.T.B. Khalsa College, DU	Assistant Professor		2017-till date			
Administrative Assignments						
<ul style="list-style-type: none">• Member of Divinity Society and Annual Day Committee.• Library and NAAC (Department committee member).• Faculty volunteer in Extra Curricular Activities (ECA) Undergraduate Admissions during August-September 2024.• Admission related grievances: redressal committee (2022-2023)						
Areas of Interest / Specialization						
Operator Theory and Operator Algebra						
Subjects Taught						
Algebra (Abstract and Linear), LaTeX and HTML, Differential Equations (ODE and PDE), Numerical Analysis (including Practical's), Computer Algebra System and Related Software, Real Analysis, Complex Analysis (Only Practical's), Multivariate Calculus (Only Practical's).						
Research Guidance						

Publications Profile

- Datt G., **Bajaj D.S.** and Fiorenza A., Ascent and descent of multiplication and composition induced operators on variable exponent Lebesgue spaces, Accepted for publication in Rend. Circ. Mat. Palermo (2).
- Datt G., **Bajaj D.S.** and Fiorenza A., Weighted composition operators on variable exponent Lebesgue spaces, Adv. Oper. Theory, 9, article no. 68, (2024).
DOI: <https://doi.org/10.1007/s43036-024-00366-1>
- **Bajaj D.S.** and Datt G., Composition operators on variable exponent Lebesgue spaces, Anal. Math., 50(2) (2024), 345–366.
DOI: <https://doi.org/10.1007/s10476-024-00015-y>
- Datt G. and **Bajaj D.S.**, Essential ascent and descent of weighted composition operators on Lorentz sequence spaces, J. Math. Anal. Appl., 514(2) (2022), 126333.
DOI: <https://doi.org/10.1016/j.jmaa.2022.126333>
- **Bajaj D.S.** and Datt G., Ascent and descent of composition operators on Lorentz spaces, Commun. Korean Math. Soc., 37(1) (2022), 195–205.
DOI: <https://doi.org/10.4134/CKMS.c210029>

Conference Organization/ Presentations (in the last Five years)

- (i) Coordinator in the **International Conference on Mathematical Sciences and its Applications (ICMSA 2024)** organised by Department of Mathematics, Sri Guru Tegh Bahadur Khalsa College, University of Delhi, Delhi-110007 from October 15-17, 2024.
- (ii) Presented paper in **5th International Conference on Frontiers in Industrial and Applied Mathematics (FIAM-2022)** organized by Department of Mathematics, Central University of Haryana, Mahendergarh, from December 22-23, 2022.
- (iii) Presented paper in **69th Annual Conference of Bharat Ganita Parisad - Recent Advances in Mathematics and Applications** organized by Department of Mathematics and Astronomy, University of Lucknow, Lucknow, from September 24-25, 2022.
- (iv) Presented paper in **68th Annual Conference of Bharat Ganita Parisad - Conference on Analysis and Applications-An International Meet (CAAIM-21)** jointly organized by Shri Ramswaroop Memorial University, Barabanki (U.P.) and University of Lucknow, Lucknow, from November 17-18, 2021.

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions
<ul style="list-style-type: none"> • Academic Topper in B.A.(Hons.) Mathematics, Sri Guru Tegh Bahadur Khalsa College, University of Delhi, Delhi-110007. • Dr. Jasjeet Kaur Memorial Award for Best Student in Mathematics (B.A.(Hons.) Mathematics), 2010-11. • Awarded a certificate by Punjabi Academy for scoring 80% in the Punjabi paper of the CBSE Secondary Exam, 2006.
Association With Professional Bodies
Refresher/Orientation/FDP/Workshop/ Programme
<ul style="list-style-type: none"> • Refresher <ol style="list-style-type: none"> (i) Participated in two weeks Refresher Course in Mathematics (Theme: Python and Vedic Mathematics) organized by Teaching Learning Centre & Department of Mathematics, Ramanujan College, University of Delhi, under the aegis of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMSTT) of Ministry of Education from July 13-26, 2023. (ii) Participated in 15 days Online National Refresher Course Python: Essentials, Programming and Analytics & Statistics with R, Financial Database and Analysis Software jointly organized by University of Delhi and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi, under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMSTT) of Ministry of Education from October 27 – November 11, 2022. • FDP <ol style="list-style-type: none"> (i) Participated in four week Faculty Induction/Orientation Programme for Faculty in Universities/Colleges/Institutes of Higher Education organized by Teaching Learning Centre, Ramanujan College, University of Delhi, under the aegis of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMSTT) of Ministry of Education from July 20 – August 18, 2022. (ii) Participated in two week Online National Faculty Development Program on Biostatistical and Mathematical Skills with Excel and R organized by Guru Angad Dev Teaching Learning Centre under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMSTT) of Ministry of Education and Department of Botany & Department of Mathematics, SGTB Khalsa College, University of Delhi, from August 16-31, 2021. (iii) Participated in one week Online National Faculty Development Program organized by Guru Angad Dev Teaching Learning Centre at SGTB Khalsa College, University of Delhi, from March 04-10, 2021.

- **Workshop**

- (i) Participated in one day **(Online) Workshop on Planning, Conducting and Writing up of Small Research Projects** organised by Institution Innovation Council and Research Development Cell, Hansraj College in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi on July 28, 2023.
- (ii) Participated in a week long capacity building **Workshop on Mathematical Data Science and Applications** organized by the Department of Mathematics, Miranda House, University of Delhi, from June 15-21, 2023.
- (iii) Participated in weekly mini-course on **Introduction to Distribution Theory and Partial Differential Equations** organized by Department of Mathematics, Miranda House, University of Delhi, from February 24 - March 17, 2022.
- (iv) Participated in **National Level Webinar on Mathematical Software Workshop** organized by the Department of Applied Sciences and Humanities in Association with Mathematics Club at Universal Engineering College, Vallivattom, Thrissur (dist), Kerala from June 02-06, 2021.
- (v) Participated in one day **National Level Workshop on Various Aspects of Research Funding, Academic Writing and Publication Ethics** organized by Research Cell at Shivaji College, University of Delhi, on January 30, 2021.
- (vi) Participated in three week online certificate course: SLC-Course 01 on **Introduction to Computer Algebra System: Maxima (An Open Source Software)** organised by Student Learning Centre, IQAC, Hansraj College, University of Delhi, from June 27, 2020 – July 18, 2020.
- (vii) Participated in one day **National Seminar cum Workshop on E-content, MOOCs (Swayam) and Arpit** jointly organised by All India Council for Technical Education (AICTE) and Guru Angad Dev Teaching Learning Centre of MHRD at SGTB Khalsa College, University of Delhi, on August 31, 2019.
- (viii) Participated in the one day **Workshop on LaTeX – a Scientific ICT Tool for Publishing** held at Guru Angad Dev Teaching Learning Centre of MHRD at SGTB Khalsa College, University of Delhi, on November 6, 2017.

- **Other Participation**

- (i) Participated in **Online Webinar on Non-uniqueness of Fixed Points, its Geometry and Applications** organized by the Department of Mathematics of Maitreyi College, University of Delhi, on July 16, 2021.
- (ii) Participated in **Student Training Programme on R and Python 3.4.3** organized by SGTB Khalsa College, University of Delhi, with course material provided by Spoken Tutorial Project, IIT Bombay from October 10-November 04, 2020.
- (iii) Participated in **National Webinar on Technology-enabled Higher Education in India: Opportunities and Challenges** organized by Mathematics Department, Daulat Ram College, University of Delhi, on June 19, 2020.
- (iv) Participated in the **National Conference on Advances in Mathematical Analysis and its Applications (NCAMAA-2019)** organized by the Department of Mathematics, P.G.D.A.V. College, University of Delhi, from November 8-10, 2019.